

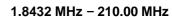
Pletronics, Inc.

19013 36th Ave. W, Suite H = Lynnwood, WA 98036 USA **Manufacturer of High Quality Frequency Control Products**

MP49 Crystal

- HC-49U Metal Thru-Hole Crystal
- Available as Gull Wing SMD or with Pull-Down Pin on Top of Can

7 pF maximum





Calibration Frequency Tolerance at 25 °C **Operating Temperature Range (OTR)** Frequency Stability (FS) over OTR

Drive Level Aging at 25°C

Shunt Capacitance

Pullability

May be specified by customer in terms of frequency shift required over a certain range of load capacitance

(e.g. +100 PPM from CL=12 to CL=18 pF) or as motional capacitance (f F)

± 30 PPM is standard, tighter tolerances available

0 to +70°C is standard, but can be extended to -40 to +85°C

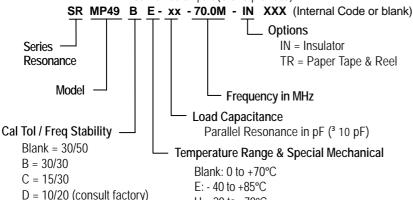
± 50 PPM is standard, see below for tighter tolerances available per OTR options $50 \mu W$ is standard, customer may specify

± 5 PPM per year is standard, customer may specify ± 1 PPM

Temperature Range Tightest FS ± 3 PPM -10 to +60°C -20 to +70°C ± 5 PPM ± 10 PPM -30 to +80°C ± 20 PPM -40 to +85°C

Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)



E: - 40 to +85°C

H: - 20 to +70°C

G: Gull Wing Surface Mount Package L: 3rd Lead (Pull-down pin) on top of can

V: Vinyl Sleeve Insulation

ESR Values

Oscillation Mode	Frequency Range (MHz)	Maximum ESR (Ohms)
Fundamental	1.8432 - 2.999	700
AT Cut	3.000 - 3.999	150
	4.000 - 6.999	100
	7.000 - 9.999	50
	10.000 - 37.000	25
3rd Overtone AT Cut	21.000 - 90.000	40
5th Overtone	60.000 -150.000	70
7th Overtone	85.000 -210.000	100

Consult factory for lower ESR

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.

Mechanical: inches (mm) not to scale Gull Wing - MP49G

Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.

